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1. Document ID: NL 7701977 A, CA 1118708 A, DE 2705652 A, DE 2705652 C, FR 2342356 A, GB 1555940 A, IT 1077744 B, JP 53055423 A, NL 183956 B, US 4085012 A

L1: Entry 1 of 1

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Aug 30, 1977

DERWENT-ACC-NO: 1977-66218Y

DERWENT-WEEK: 197737

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TITLE: Anodising aluminium for bonding with polymer adhesives - is carried out in phosphoric acid bath at 10-30 degrees C

## PATENT-ASSIGNEE:

ASSIGNEE	CODE
BOEING CO	BOEI

PRIORITY-DATA: 1976US-0736726 (October 29, 1976), 1976US-0661717 (February 26, 1976)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
NL 7701977 A	August 30, 1977		000	
CA 1118708 A	February 23, 1982		000	
<u>DE 2705652 A</u>	May 3, 1978		000	
<u>DE 2705652 C</u>	October 13, 1988		000	
FR 2342356 A	October 28, 1977		000	
GB 1555940 A	November 14, 1979		000	
IT 1077744 B	May 4, 1985		000	
JP 53055423 A	May 19, 1978		000	
NL 183956 B	October 3, 1988		000	
US 4085012 A	April 18, 1978		000	

INT-CL (IPC): B05D 7/16; B32B 7/12; B32B 15/20; B64C 3/26; C09J 5/02; C22C 0/00; C25D 11/08

ABSTRACTED-PUB-NO: NL 7701977A

## BASIC-ABSTRACT:

Porous aluminium oxide layers are formed by anodising the article in a bath contg. 1.5-50 wt.% (10-12) wt.% H<sub>3</sub>PO<sub>4</sub> at 10-30 (21-24)

degrees C, and using an anodising voltage of 1.50-50 (10-15) volts.

Pref. the anodising process is carried out for 10-30 (20-25) mins., and the article is rinsed within 0.3-2.3 mins. after anodising is completed.

The process is useful for pretreating aluminium articles which are to be bonded with polymeric adhesives such as epoxy adhesives, e.g. in aircraft manufacture. The porous aluminium oxide layer formed is compatible with polymeric adhesives and gives high bond strengths. The resulting adhesive bonds have high resistance to hydrolysis and failure of the bond is generally by cohesive failure in the glue line rather than adhesive failure in the oxide layer or at the glue/oxide interface.

TITLE-T ERMS: ANODISE ALUMINIUM BOND POLYMER ADHESIVE CARRY PHOSPHORIC ACID BATH DEGREE

DERWENT-CLASS: A35 M11 P42 P73 Q25

CPI-CODES: A12-A; M11-E;

Multipunch Codes: 010 03- 04- 06- 15- 20- 226 303 37& 42& 427 446  
47& 477 541 549 597 600 609 672 726

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